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└ 2. Document ID: DE 19905128 A1

L1: Entry 2 of 3

File: EPAB

Aug 10, 2000

PUB-NO: DE019905128A1

DOCUMENT-IDENTIFIER: DE 19905128 A1

TITLE: New human antibiotic peptides, useful for treating microbial infections, particularly when incorporated in wound dressings, also related nucleic acid

PUBN-DATE: August 10, 2000

INVENTOR-INFORMATION:

NAME	COUNTRY
CHRISTOPHERS, ENNO	DE
HARDER, JUERGEN	DE
SCHROEDER, JENS	DE

ASSIGNEE-INFORMATION:

NAME	COUNTRY
SCHERING AG	DE

APPL-NO: DE19905128

APPL-DATE: February 1, 1999

PRIORITY-DATA: DE19905128A (February 1, 1999)

INT-CL (IPC): C07 K 14/435; A61 K 38/17; A61 K 39/395; C12 N 15/12; C12 N 15/63
EUR-CL (EPC): A61L015/32; C07K014/47, C12N009/22 , C07K014/47

ABSTRACT:

CHG DATE=20010202 STATUS=O>Active, mature protein (I) having a 128 residue SAP-2 amino acid sequence, or a 45 residue SAP-3 amino acid sequence, both fully defined in the specification, or a modified form of SAP-2 or -3 is new. The modified forms are allelic modifications with at least one substitution deletion or insertion, or post-translational modifications, which do not significantly alter the activity. Independent claims are also included for the following: (1) proteins (II) comprising a signal sequence plus the sequence for SAP-2 or -3 (designated Pre-SAP-2 or -3), and comprising 156 and 67 residue amino acid sequences, respectively, both fully defined in the specification and their modified forms; (2) (I) and (II) in which at least one terminus is protected; (3) cDNA or DNA (III) encoding (I) or (II), or their modifications; (4) vector containing (III), a promoter and optionally an enhancer, optionally included in a transformed prokaryotic or eukaryotic cell; (5) a pharmaceutical composition containing at least one of (I) or (II), and a carrier; (6) synthesis of (I) or (II); (7) binding molecules, single-chain proteins and antibodies (or their fragments) that specifically recognize domains in (I); and (8) wound dressing containing at least one (I) or (II), or syngenic or allogenic human cells containing (III).

Full	Title	Citation	Kind	Referred	Classification	Date	References	Sequences	Attachments	Claims	Pub	Doc	Page	to	app
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└ 3. Document ID: BR 200103257 A WO 200046245 A2 DE 19905128 A1 AU 200026684 A EP 1068232 A2 DE 19949436 A1

L1: Entry 3 of 3

File: DWPI

Jul 29, 2003

DERWENT-ACC-NO: 2000-514948

DERWENT-WEEK: 200365

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TITLE: New human antibiotic peptides, useful for treating microbial infections, particularly when incorporated in wound dressings, also related nucleic acid

INVENTOR: CHRISTOPHERS, E; HARDER, J ; SCHROEDER, J

PATENT-ASSIGNEE:

ASSIGNEE	CODE
SCHERING AG	SCHD

PRIORITY-DATA: 1999DE-1049436 (October 8, 1999), 1999DE-1005128 (February 1, 1999), 2001BR-0003257 (August 7, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BR 200103257 A	July 29, 2003		000	C07K014/47
WO 200046245 A2	August 10, 2000	G	040	C07K014/47
<u>DE 19905128 A1</u>	August 10, 2000		000	C07K014/435
AU 200026684 A	August 25, 2000		000	C07K014/47
EP 1068232 A2	January 17, 2001	G	000	C07K014/47
<u>DE 19949436 A1</u>	May 3, 2001		000	C07K014/435

DESIGNATED-STATES: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
BR 200103257A	August 7, 2001	2001BR-0003257	
WO 200046245A2	February 1, 2000	2000WO-EP00776	
DE 19905128A1	February 1, 1999	1999DE-1005128	
AU 200026684A	February 1, 2000	2000AU-0026684	
AU 200026684A		WO 200046245	Based on
EP 1068232A2	February 1, 2000	2000EP-0904996	
EP 1068232A2	February 1, 2000	2000WO-EP00776	
EP 1068232A2		WO 200046245	Based on
DE 19949436A1	October 8, 1999	1999DE-1049436	

INT-CL (IPC): A61 K 38/17; A61 K 38/57; A61 K 39/395; A61 P 31/00; C07 K 14/435; C07 K 14/47; C07 K 16/18; C12 N 9/22; C12 N 15/12; C12 N 15/63

ABSTRACTED-PUB-NO: WO 200046245A

BASIC-ABSTRACT:

NOVELTY - Active, mature protein (I) having a 128 residue SAP-2 amino acid sequence, or a 45 residue SAP-3 amino acid sequence, both fully defined in the specification, or a modified form of SAP-2 or -3 is new. The modified forms are allelic modifications with at least one substitution deletion or insertion, or post-translational modifications, which do not significantly alter the activity.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) proteins (II) comprising a signal sequence plus the sequence for SAP-2 or -3 (designated Pre-SAP-2 or -3), and comprising 156 and 67 residue amino acid sequences, respectively, both fully defined in the specification and their modified forms;

- (2) (I) and (II) in which at least one terminus is protected;
- (3) cDNA or DNA (III) encoding (I) or (II), or their modifications;
- (4) vector containing (III), a promoter and optionally an enhancer, optionally included in a transformed prokaryotic or eukaryotic cell;
- (5) a pharmaceutical composition containing at least one of (I) or (II), and a carrier;
- (6) synthesis of (I) or (II);
- (7) binding molecules, single-chain proteins and antibodies (or their fragments) that specifically recognize domains in (I); and
- (8) wound dressing containing at least one (I) or (II), or syngenic or allogenic human cells containing (III).

ACTIVITY - Antibiotic; antibacterial; antifungal; antiviral. SAP-2 was incubated at 37 deg. C for 3 hours with various microorganisms (0.1 million colony-forming units (cfu)/ml) in pH 7.4 buffer containing trypticase soya broth. The following day the cfu content was determined to indicate a LD90 for SAP-2 of 4-7.5 micro g/ml against *Propionibacterium acnes*, 7.5-15 micro g/ml against *Staphylococcus aureus* and *Pseudomonas aeruginosa*, and 15-30 micro g/ml against *Candida albicans*.

MECHANISM OF ACTION - SAP-2 is an RNase.

USE - (I), and their precursors, are useful for treating or preventing microbial infections (caused by bacteria, fungi or viruses), particularly where they (or human cells expressing them) are included in wound dressings, and to produce specific antibodies (Ab) or their fragments. Ab are used as diagnostic reagents, e.g. to detect a deficiency of (I) or the presence of a (I) variant. (All claimed).

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: NEW HUMAN ANTIBIOTIC USEFUL TREAT MICROBE INFECT INCORPORATE WOUND DRESS RELATED NUCLEIC ACID

DERWENT-CLASS: B04 D16 D22

CPI-CODES: B04-E03F; B04-E08; B04-F0100E; B04-F0200E; B04-G01; B04-N0200E; B12-M02D; B14-A01; B14-N17B; D05-C02; D05-H09; D05-H11; D05-H12A; D05-H14; D05-H17A6; D09-A01C; D09-C04B;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

M423 M431 M710 M781 M782 M905 N135 P942 Q233 Q262

R041

Specific Compounds

A00H3M A00H3N A00H3U

Chemical Indexing M1 *02*

Fragmentation Code

M423 M431 M710 M781 M782 M905 N135 P942 Q233 Q262

R041

Specific Compounds

A00NSM A00NSN A00NSU

Chemical Indexing M1 *03*

Fragmentation Code

M423 M431 M710 M781 M782 M905 N135 P942 Q233 Q262

R041

Specific Compounds

A012PM A012PN A012PU

Chemical Indexing M1 *04*

Fragmentation Code

M423 M710 M905 N135 Q233 Q262

Specific Compounds

A00GTN

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-153669

Full	Title	Author	Front	Keywords	Classification	Date	Reference	Subject	Editorial
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Full	Title	Author	Front
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Generate Collection

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Terms	Documents
de-19905128\$.did. or de-19949436\$.did. or 2000ep-0000776.ap,prai.	3

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August 1, 2003
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NEWS 7 AUG 18 Simultaneous left and right truncation added to PASCAL
NEWS 8 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right
Truncation
NEWS 9 AUG 18 Simultaneous left and right truncation added to ANABSTR
NEWS 10 SEP 22 DIPPR file reloaded
NEWS 11 SEP 25 INPADOC: Legal Status data to be reloaded
NEWS 12 SEP 29 DISSABS now available on STN
NEWS 13 OCT 10 PCTFULL: Two new display fields added
NEWS 14 OCT 21 BIOSIS file reloaded and enhanced
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced

NEWS EXPRESS OCTOBER 01 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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FILE 'MEDLINE' ENTERED AT 14:17:09 ON 30 OCT 2003



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=> s antimicrobial peptide
L1 5214 ANTIMICROBIAL PEPTIDE

=> s oral administration
L2 171383 ORAL ADMINISTRATION

=> s parenteral administration and l1
L3 55 PARENTERAL ADMINISTRATION AND L1

=> s l3 and l2
L4 22 L3 AND L2

=> s injection and l1
L5 192 INJECTION AND L1

=> s l5 and l4
L6 22 L5 AND L4

=> s l1 and topical
L7 281 L1 AND TOPICAL

=> s l7 and l6
L8 20 L7 AND L6

=> d l8 ti abs ibib tot

L8 ANSWER 1 OF 20 USPATFULL on STN
TI Membrane to membrane delivery
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

ACCESSION NUMBER: 2003:282746 USPATFULL
TITLE: Membrane to membrane delivery
INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003199089	A1	20031023
APPLICATION INFO.:	US 2002-157318	A1	20020528 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-295566P	20010605 (60)

US 2002-359843P 20020225 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18530

L8 ANSWER 2 OF 20 USPATFULL on STN
TI Minicell-based gene therapy
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

ACCESSION NUMBER: 2003:282745 USPATFULL
TITLE: Minicell-based gene therapy
INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003199088	A1	20031023
APPLICATION INFO.:	US 2002-156902	A1	20020528 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-295566P	20010605 (60)
	US 2002-359843P	20020225 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	15300	

L8 ANSWER 3 OF 20 USPATFULL on STN
TI Solid supports with minicells
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

ACCESSION NUMBER: 2003:282662 USPATFULL
TITLE: Solid supports with minicells
INVENTOR(S): Sabbadini, Roger, Lakeside, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003199005	A1	20031023
APPLICATION INFO.:	US 2002-157166	A1	20020528 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-359843P	20020225 (60)
	US 2001-293566P	20010524 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18494

L8 ANSWER 4 OF 20 USPATFULL on STN

TI Minicell libraries

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

ACCESSION NUMBER: 2003:282653 USPATFULL
TITLE: Minicell libraries
INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Gerhart, William, La Mesa, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003198996	A1	20031023
APPLICATION INFO.:	US 2002-157147	A1	20020528 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-293566P	20010524 (60)
	US 2002-359843P	20020225 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18482

L8 ANSWER 5 OF 20 USPATFULL on STN

TI Forward screening with minicells

AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

ACCESSION NUMBER: 2003:282652 USPATFULL
TITLE: Forward screening with minicells
INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES
Gerhart, William, La Mesa, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003198995	A1	20031023
APPLICATION INFO.:	US 2002-156831	A1	20020528 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING		

	NUMBER	DATE
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PRIORITY INFORMATION:	US 2002-359843P	20020225 (60)
	US 2001-293566P	20010524 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	18533	

L8 ANSWER 6 OF 20 USPATFULL on STN
 TI Minicell compositions and methods
 AB The invention provides compositions and methods for the production of
 achromosomal and anucleate cells useful for applications such as
 diagnostic and therapeutic uses, as well as research tools and agents
 for drug discovery.

ACCESSION NUMBER: 2003:276773 USPATFULL
 TITLE: Minicell compositions and methods
 INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES
 Sabbadini, Roger A., Lakeside, CA, UNITED STATES

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 2003194798	A1	20031016
APPLICATION INFO.:	US 2002-154951	A1	20020524 (10)

	NUMBER	DATE
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PRIORITY INFORMATION:	US 2001-293566P	20010524 (60)
	US 2002-359843P	20020225 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	18583	

L8 ANSWER 7 OF 20 USPATFULL on STN
 TI Minicell-based transformation
 AB The invention provides compositions and methods for the production of
 achromosomal and anucleate cells useful for applications such as
 diagnostic and therapeutic uses, as well as research tools and agents
 for drug discovery.

ACCESSION NUMBER: 2003:276689 USPATFULL
 TITLE: Minicell-based transformation
 INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
 Berkley, Neil, San Diego, CA, UNITED STATES
 Surber, Mark W., Coronado, CA, UNITED STATES

	NUMBER	KIND	DATE
	-----	-----	-----
PATENT INFORMATION:	US 2003194714	A1	20031016
APPLICATION INFO.:	US 2002-157299	A1	20020528 (10)

	NUMBER	DATE
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PRIORITY INFORMATION:	US 2001-295566P	20010605 (60)

US 2002-359843P 20020225 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18595

L8 ANSWER 8 OF 20 USPATFULL on STN
TI Minicell-producing parent cells
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

ACCESSION NUMBER: 2003:271146 USPATFULL
TITLE: Minicell-producing parent cells
INVENTOR(S): Surber, Mark W., Coronado, CA, UNITED STATES
Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Segall, Anca M., San Diego, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003190749	A1	20031009
APPLICATION INFO.:	US 2002-157215	A1	20020528 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-359843P	20020225 (60)
	US 2001-293566P	20010524 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	18577	

L8 ANSWER 9 OF 20 USPATFULL on STN
TI Minicell-based rational drug design
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

ACCESSION NUMBER: 2003:271080 USPATFULL
TITLE: Minicell-based rational drug design
INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003190683	A1	20031009
APPLICATION INFO.:	US 2002-157302	A1	20020528 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING		

NUMBER	DATE
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PRIORITY INFORMATION: US 2002-359843P 20020225 (60)
US 2001-293566P 20010524 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET,
FOURTEENTH FLOOR, IRVINE, CA, 92614
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 18539

L8 ANSWER 10 OF 20 USPATFULL on STN
TI Polynucleotide encoding an activated human T-lymphocyte-derived protein
related to ubiquitin conjugating enzyme
AB The present invention describes a newly discovered ubiquitin conjugating
enzyme homologue, called RATL1d6 herein, and its encoding
polynucleotide, isolated and identified from activated T lymphocytes.
Also described are expression vectors, host cells, agonists,
antagonists, antisense molecules, and antibodies associated with the
activity and use of the newly-discovered polynucleotide and/or
polypeptide of the present invention. Methods for treating, diagnosing,
preventing and screening for disorders related to the expression of the
RATL1d6 ubiquitin conjugating enzyme polypeptide are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:271010 USPATFULL
TITLE: Polynucleotide encoding an activated human
T-lymphocyte-derived protein related to ubiquitin
conjugating enzyme
INVENTOR(S): Bowen, Michael A., Rockville, MD, UNITED STATES
Wu, Yuli, Newtown, PA, UNITED STATES
Yang, Wen-Pin, Princeton, NJ, UNITED STATES
Finger, Joshua, San Marcos, CA, UNITED STATES
Nadler, Steven, Princeton, NJ, UNITED STATES
Carroll, Pamela, Princeton, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003190613	A1	20031009
APPLICATION INFO.:	US 2001-5549	A1	20011029 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-308706P	20010730 (60)
	US 2000-244688P	20001030 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Page(s)	
LINE COUNT:	5177	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 11 OF 20 USPATFULL on STN
TI Target display on minicells
AB The invention provides compositions and methods for the production of
achromosomal and anucleate cells useful for applications such as
diagnostic and therapeutic uses, as well as research tools and agents
for drug discovery.

ACCESSION NUMBER: 2003:270998 USPATFULL

TITLE: Target display on minicells
INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Surber, Mark W., Coronada, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003190601	A1	20031009
APPLICATION INFO.:	US 2002-157096	A1	20020528 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-359843P	20020225 (60)
	US 2001-293566P	20010524 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	18581	

L8 ANSWER 12 OF 20 USPATFULL on STN

TI Human and mouse beta-defensins, antimicrobial peptides
AB The present invention employs an iterative application of BLAST and Hidden Markov Model (HMM) based searches which identified 34 .beta.-defensin genes in the human genome and 48 in the mouse genome. The present invention relates to novel antimicrobial peptides and derivatives thereof as well as the .beta.-defensin genes encoding the peptides. The invention further relates to methods of use of the peptides including a method of inhibiting microbial growth by administering an effective amount of the peptide alone or in combination with other antimicrobial agents or antibiotics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:251863 USPATFULL
TITLE: Human and mouse beta-defensins, antimicrobial peptides
INVENTOR(S): McCray, Paul B., JR., Iowa City, IA, UNITED STATES
Schutte, Brian C., Iowa City, IA, UNITED STATES
Jia, Hong Peng, Iowa City, IA, UNITED STATES
Casavant, Thomas L., Iowa City, IA, UNITED STATES
Welsh, Michael J., Riverside, IA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003176652	A1	20030918
APPLICATION INFO.:	US 2002-252734	A1	20020923 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-323991P	20010921 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FULBRIGHT & JAWORSKI L.L.P., A REGISTERED LIMITED LIABILITY PARTNERSHIP, SUITE 2400, 600 CONGRESS AVENUE, AUSTIN, TX, 78701-3271	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	4325	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 13 OF 20 USPATFULL on STN
TI Minicell-based transfection
AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

ACCESSION NUMBER: 2003:238122 USPATFULL
TITLE: Minicell-based transfection
INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003166279	A1	20030904
APPLICATION INFO.:	US 2002-157391	A1	20020528 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-359843P	20020225 (60)
	US 2001-293566P	20010524 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	18548	

L8 ANSWER 14 OF 20 USPATFULL on STN
TI Minicells comprising membrane proteins
AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

ACCESSION NUMBER: 2003:237942 USPATFULL
TITLE: Minicells comprising membrane proteins
INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
Surber, Mark W., Coronado, CA, UNITED STATES
Berkley, Neil, San Diego, CA, UNITED STATES
Segall, Anca M., San Diego, CA, UNITED STATES
Klepper, Robert, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003166099	A1	20030904
APPLICATION INFO.:	US 2002-157305	A1	20020528 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-295566P	20010605 (60)
	US 2002-359843P	20020225 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	

LINE COUNT: 18580

L8 ANSWER 15 OF 20 USPATFULL on STN

TI Methods and compositions for diagnosing and treating rheumatoid arthritis

AB The invention provides methods and compositions for diagnostic assays for detecting R.A. and therapeutic methods and compositions for treating R.A. The invention also provides methods for designing, identifying, and optimizing therapeutics for R.A. Diagnostic compositions of the invention include compositions comprising detection agents for detecting one or more genes that have been shown to be up- or down-regulated in cells of R.A. relative to normal counterpart cells. Exemplary detection agents include nucleic acid probes, which can be in solution or attached to a solid surface, e.g., in the form of a microarray. The invention also provides computer-readable media comprising values of levels of expression of one or more genes that are up- or down-regulated in R.A.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:220740 USPATFULL

TITLE: Methods and compositions for diagnosing and treating rheumatoid arthritis

INVENTOR(S): Pittman, Debra D., Windham, NH, UNITED STATES
Feldman, Jeffrey L., Arlington, MA, UNITED STATES
Shields, Kathleen M., Harvard, MA, UNITED STATES
Trepicchio, William L., Andover, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003154032	A1	20030814
APPLICATION INFO.:	US 2001-23451	A1	20011217 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-255861P	20001215 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Patent Group, FOLEY, HOAG & ELIOT LLP, One Post Office Square, Bostox, MA, 02109	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
LINE COUNT:	25385	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 16 OF 20 USPATFULL on STN

TI DNA sequences from S. pneumoniae bacteriophage DP1 that encode anti-microbial polypeptides

AB The disclosure concerns particular bacteriophage open reading frames, and portions and products of those open reading frames which have antimicrobial activity. Methods of using such products are also described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:200786 USPATFULL

TITLE: DNA sequences from S. pneumoniae bacteriophage DP1 that encode anti-microbial polypeptides

INVENTOR(S): Pelletier, Jerry, Baie-D'Urfe, CANADA
Gros, Philippe, St. Lambert, CANADA
DuBow, Michael, Montreal, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003138771	A1	20030724
APPLICATION INFO.:	US 2002-97111	A1	20020717 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-676412, filed		

on 29 Sep 2000, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-157218P	19990930 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Wesley B. Ames, FOLEY & LARDNER, P.O. Box 80278, San Diego, CA, 92138-0278	
NUMBER OF CLAIMS:	84	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Page(s)	
LINE COUNT:	6990	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 17 OF 20 USPATFULL on STN
TI DNA encoding an avian beta-defensin and uses thereof
AB An isolated nucleic acid molecule encoding avian beta-defensin is provided. Further provided are compositions comprising an avian beta-defensin, or portions thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:96178 USPATFULL
TITLE: DNA encoding an avian beta-defensin and uses thereof
INVENTOR(S): Harmon, Barry G., Athens, GA, United States
Jackwood, Mark W., Watkinsville, GA, United States
Brockus, Charles W., Athens, GA, United States
PATENT ASSIGNEE(S): University of Georgia Research Foundation, Inc., Athens, GA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6545140	B1	20030408
APPLICATION INFO.:	US 1999-351657		19990713 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-92668P	19980713 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Smith, Lynette R. F.	
ASSISTANT EXAMINER:	Portner, Ginny Allen	
LEGAL REPRESENTATIVE:	Schwegman, Lundberg, Woessner & Kluth, P.A.	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	13 Drawing Figure(s); 11 Drawing Page(s)	
LINE COUNT:	2226	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 18 OF 20 USPATFULL on STN
TI Peptides for the activation of the immune system in humans and animals
AB The present invention is directed to compositions and methods for the treatment of diseases comprising the administration of compositions comprising one or more peptide(s) having a stimulatory effect on the afflicted host's immune system. Specifically, the invention relates to methods comprising the use of cationic amphipathic peptides having an .alpha.-helical structure and effecting activation of macrophages when administered in a therapeutically sufficient amount. The methods of the present invention are useful for the treatment of, for example, infectious or cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:272843 USPATFULL
TITLE: Peptides for the activation of the immune system in

INVENTOR(S): humans and animals
Mor, Amram, Paris, FRANCE
Vouldoukis, Ioannis, Antony, FRANCE
Nicolas, Pierre, Tourny, FRANCE
PATENT ASSIGNEE(S): Centre National De La Recherche Scientifique (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002150964	A1	20021017
APPLICATION INFO.:	US 2002-38045	A1	20020102 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1998-181941, filed on 28 Oct 1998, PENDING Continuation of Ser. No. US 1995-574701, filed on 19 Dec 1995, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Pennie & Edmonds, LLP, 3300 Hillview Avenue, Palo Alto, CA, 94304		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	13 Drawing Page(s)		
LINE COUNT:	3586		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L8 ANSWER 19 OF 20 USPATFULL on STN

TI Peptides for the activation of the immune system in humans and animals
AB The present invention is directed to compositions and methods for the treatment of diseases comprising the administration of compositions comprising one or more peptide(s) having a stimulatory effect on the afflicted host's immune system. Specifically, the invention relates to methods comprising the use of cationic amphipathic peptides having an .alpha.-helical structure and effecting activation of macrophages when administered in a therapeutically sufficient amount. The methods of the present invention are useful for the treatment of, for example, infectious diseases or cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:217046 USPATFULL
TITLE: Peptides for the activation of the immune system in humans and animals
INVENTOR(S): Mor, Amram, 3, rue du Pas de la Mule, Paris, FRANCE 75004
Vouldoukis, Ioannis, Antony, FRANCE
Nicolas, Pierre, Tourny, FRANCE
PATENT ASSIGNEE(S): Mor, Amram, Jerusalem, ISRAEL (non-U.S. individual)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6440690	B1	20020827
APPLICATION INFO.:	US 1998-181941		19981028 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-574701, filed on 19 Dec 1995, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1995-7831	19950629
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Park, Hankyel T.	
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP	
NUMBER OF CLAIMS:	1	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	27 Drawing Figure(s); 13 Drawing Page(s)	
LINE COUNT:	3528	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 20 OF 20 USPATFULL on STN

TI Human beta-defensin-3 (HBD-3), a highly cationic beta-defensin
antimicrobial peptide

AB The present invention relates a novel **antimicrobial peptide** HBD-3 and derivatives thereof as well as the gene encoding the peptide. The invention further relates to methods of use of the HBD-3 peptide including a method of inhibiting microbial growth by administering an effective amount of the HBD-3 peptide alone or in combination with other antimicrobial agents or antibiotics. In addition, the immunomodulatory properties of the HBD-3 peptide also facilitate the manipulation of the immune response, i.e., as a chemoattractant for immature dendritic cells or memory T cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:214215 USPATFULL

TITLE: Human beta-defensin-3 (HBD-3), a highly cationic
beta-defensin **antimicrobial peptide**

INVENTOR(S): McCray, Paul B., JR., Iowa City, IA, UNITED STATES
Tack, Brian F., Iowa City, IA, UNITED STATES
Jia, Hong Peng, Iowa City, IA, UNITED STATES
Schutte, Brian C., Iowa City, IA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002115602	A1	20020822
APPLICATION INFO.:	US 2001-872852	A1	20010601 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-208792P	20000601 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Steven L. Highlander, Fulbright & Jaworski L.L.P., Suite 2400, 600 Congress Avenue, Austin, TX, 78701	
NUMBER OF CLAIMS:	55	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	3851	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> e McCray, p/au

E1	8	MCCRAY WALTER A/AU
E2	9	MCCRAY WILLIAM R/AU
E3	0 -->	MCCRAY, P/AU
E4	1	MCCRAY R J/AU
E5	2	MCCREA A/AU
E6	3	MCCREA A D/AU
E7	20	MCCREA A E/AU
E8	1	MCCREA A L/AU
E9	1	MCCREA A N/AU
E10	6	MCCREA A P/AU
E11	5	MCCREA ALAN F/AU
E12	2	MCCREA ANDREW D/AU

=> e tack,b/au

E1	1	TACK WOUTER/AU
E2	3	TACK Y/AU
E3	0 -->	TACK, B/AU
E4	2	TACKA F/AU
E5	3	TACKA K A/AU
E6	3	TACKA KIRK A/AU

E7	2	TACKABERRY B M/AU
E8	3	TACKABERRY C/AU
E9	1	TACKABERRY C J/AU
E10	1	TACKABERRY C J T/AU
E11	2	TACKABERRY D/AU
E12	2	TACKABERRY D O/AU

=> e Peng,H/au

E1	2	PENG ZUOYAN/AU
E2	1	PENG ZY ZHENG YU/AU
E3	0 -->	PENG,H/AU
E4	2	PENGACHEVA O M/AU
E5	1	PENGAL R A/AU
E6	1	PENGAL RUMA A/AU
E7	2	PENGALLY D/AU
E8	1	PENGAM M/AU
E9	1	PENGAM N/AU
E10	1	PENGANI D/AU
E11	1	PENGBIN XI/AU
E12	1	PENGBO L/AU

=> schutte, b/au

SCHUTTE, IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).

=> e schutte, b/au

E1	1	SCHUTTE WILHELM/AU
E2	1	SCHUTTE WOLFGANG/AU
E3	0 -->	SCHUTTE, B/AU
E4	1	SCHUTTEDEL G M/AU
E5	1	SCHUTTEL H/AU
E6	3	SCHUTTEL J J/AU
E7	5	SCHUTTEL S/AU
E8	1	SCHUTTEL STEFAN/AU
E9	2	SCHUTTELAAR M/AU
E10	5	SCHUTTELAAR M L/AU
E11	4	SCHUTTELAAR M L A/AU
E12	1	SCHUTTELAAR M R/AU